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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/726,177	12/01/2003		Wilfried Matthis	60133 (70301)	2568	
7	590	10/19/2005		EXAM	EXAMINER	
Edwards & Angell LLP P O Box 55874				REIMERS, ANNETTE R		
Boston, MA				ART UNIT	PAPER NUMBER	
•		•		3733		

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			C
	Application No.	Applicant(s)	
	10/726,177	MATTHIS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Annette R. Reimers	3733	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versiliure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) ⊠ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>01 December 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	re: a) \square accepted or b) \square object drawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/01/03, 06/23/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

DETAILED ACTION

Claim Objections

There exits an inconsistency in the language of claim 17. In the preamble of claim 17, line 1, applicant recites "Pressure element" with the polyaxial bone screw being only functionally recited, i.e. "for use in a polyaxial bone screw ...", thus indicating that the claim is directed to the subcombination, "Pressure element". However, in claim 17, line 2, applicant positively recites the polyaxial bone screw as part of the invention, i.e. "the polyaxial bone screw comprising", thus indicating that the combination, pressure element and polyaxial bone screw, is being claimed. As such, it is unclear whether applicant intends to claim the subcombination or combination. Applicant is hereby required to indicate to which, combination or subcombination, the claims are intended to be directed, and amend the claim such that the language thereof is consistent with this intent. For examination purposes, claims 17-20 will be considered as being drawn to the combination, pressure element and polyaxial bone screw.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 5-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Haider (U.S. Patent Number 5,782,833).

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Haider discloses an implant comprising a shaft, 14, a holding element, 20, connected with the shaft, wherein the holding element comprises a recess with a U-shaped cross section for receiving a rod, the recess forming two free legs having at one end thereof an inner thread, a closure element, 48, for fixation of the rod inserted into the U-shaped recess, the closure element having an outer thread cooperating with the inner thread of the legs and an abutment cooperating with the closure element to limit a tilting of the closure element about the rod at the time of final tightening of the closure element in the holding element (see figure 4). The closure element comprises a lower side facing the rod and the abutment is a support surface for a section of the lower side of the closure element (see figure 4). The U-shaped recess of the closure element has a bottom and the rod has a diameter, wherein a distance between the bottom of the U-shaped recess to the support surface is smaller than the diameter of the rod (see figures 2 and 4). The abutment is an inward projecting surface on the inside of the free legs of the holding element (see figure 4).

The shaft and the holding element are connected monoaxially. Furthermore, the shaft and the holding element are capable of being formed in one piece. The shaft has a head at one end that is polyaxially connected to the holding element, wherein the implant further comprises a pressure element, 34, having an end facing the closure element for acting upon the head to fix an angular position of the shaft relative to the holding element, and wherein the abutment is provided at the end of the pressure element (see figures 2 and 4). The pressure element comprises a second U-shaped recess with a second bottom corresponding to the recess of the holding element, the

second U-shaped recess forming third and fourth free legs having a free end in a plane and wherein the abutment is formed by the free end (see figure 5). Regarding the method claims, 13-16, the method of fixing a rod relative to a bone can be inherently performed by the device of Haider.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4 and 20 and are rejected under 35 U.S.C. 103(a) as being unpatentable over Haider (U.S. Patent Number 5,782,833).

Haider discloses the claimed invention except for the distance being smaller than the diameter by an amount from about 1 percent to about 7.5 percent of the diameter. It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Haider the distance being smaller than the diameter by an amount from about 1 percent to about 7.5 percent of the diameter, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

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Conclusion

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO 892 for art cited of interest.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Annette R. Reimers whose telephone number is (571) 272-7135. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on (571) 272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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EDUARDO O. ROBERT PRIMARY EXAMINER